

LOCKHEED AIRCRAFT CORPORATION		ENGINEERING STUDY <input checked="" type="checkbox"/>		LAC - 194							
DATE 8-21-64		CHANGE PROPOSAL <input type="checkbox"/>									
NAME OF MAJOR COMPONENT Cockpit Mock-up		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE							
TITLE OF PROPOSAL : DYNAMIC CANOPY EJECTION TESTS											
NATURE OF PROPOSAL : SEE PAGE 2											
REASON FOR PROPOSAL : To determine the effect of dynamic pressure on canopy and seat ejection											
<i>This work already accomplished</i> <i>P.</i>											
ES	ESTIMATED COST AND TIME INVOLVED : See Page 3										
	ADDITIONAL FUNDING REQUIRED : No. SP-1923 COMMON										
CP	ESTIMATED COST FOR KITS OR PARTS :										
	ADDITIONAL FUNDING REQUIRED :										
ITEMS AFFECTED BY PROPOSAL :											
SAFETY	MISSION EFFEC- TIVENESS	PERFORM- ANCE	OPERATING PROCEDURE	INTER- CHANGE- ABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD											
SOURCE OF PARTS FOR THE TEST						AVAILABILITY _____ WEEKS AFTER APPROVAL					
LAC						See Page 3					
DISPOSITION OF SPARES AFFECTED											
INITIATED BY : Customer						APPROVED : WSPO					
Approved For Release 2002/08/21 : CIA-RDP89B00980R000200170014-0											

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NATURE OF PROPOSAL:

It is proposed to test the canopy ejection system under dynamic (air) load conditions. Although primary interest is in the effect of dynamic pressure on the action of the canopy when ejected, it is proposed that a weighted seat be ejected also to demonstrate seat-canopy clearances during ejection.

Dynamic pressure will be imposed during the tests by making ejections at approximately 75 MPH from a moving vehicle. Five ejections are anticipated; one with canopy only and four with canopy and weighted seat. All shots will be photographed by the LAC photo department.

A flat bed truck will be leased for a period of approximately three weeks and the existing cockpit mock-up with a production canopy and seat ejection systems will be installed on the truck bed.

It is anticipated that installation of the mock-up on the truck, and all preparatory work will be done at the Van Nuys facility. Tests will be conducted at EAFB North Base.

Equipment required for tests:

- (a) Cockpit mock-up with ejection systems installed (LAC)
- (b) Ejection seats (2) with approximately 180 lbs. of weight (GFAE)
- (c) Three canopies to latest configuration (GFAE)
- (d) Flat bed truck (leased)
- (e) Pyrotechnics as required for five canopy ejections and four seat ejections (GFAE)

Note: It is anticipated that seat assemblies will be extensively damaged during testing and therefore will not be repaired.

COST BREAKDOWN:

Contract SP-1923 "Common"

Installation, Tests & Evaluation

25X1

SCHEDULE:

Testing to be complete by 8-21-64.